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Prednisolone

Catalog No: tcsc2249

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
50-24-8

Formula:
$C_{21}H_{28}O_5$

Pathway:
GPCR/G Protein

Target:
Glucocorticoid Receptor

Purity / Grade:
>98%

Solubility:
H2O : 0.1 mg/mL (0.28 mM; Need ultrasonic); DMSO : ≥ 100 mg/mL (277.44 mM)

Observed Molecular Weight:
360.44

Product Description

Prednisolone is a glucocorticoid with the general properties of the corticosteroids.

Target: Glucocorticoid Receptor

Prednisolone is a glucocorticoid with the general properties of the corticosteroids. It is the drug of choice for all conditions in which routine systemic corticosteroid therapy is indicated, except adrenal deficiency states. Prednisolone, 5 or 50 mg/kg, was administered

intravenously to adrenalectomized rats. Total plasma, free plasma, CBG-free plasma, and liver prednisolone concentrations were measured simultaneously with free hepatic cytosolic glucocorticoid receptor concentrations and tyrosine aminotransferase (TAT) activity of the liver as a function of time. prednisolone pharmacokinetics were dose-dependent, parameters describing receptor kinetics and TAT activity were constant at each prednisolone dose. The major determinants of receptor-mediated glucocorticoid activity are confirmed to be the availability of the receptor, drug-receptor dissociation rate, and corticosteroid persistence in the biophase [1, 2].